

REPORT ON BOILERS.

No. 6852

Received at London Office

WED 26 OCT 1910

Date of writing Report 25th Oct 1910 When handed in at Local Office 10 Port of Belfast
No. in Survey held at Belfast Date, First Survey 18th Oct 1909 Last Survey 22nd Oct 1910
Reg. Book. on the S.S. *Clarence* (Number of Visits 81) Gross 8124 Tons Net 5049
Master J. H. Harris Built at Belfast By whom built Harland & Wolff Ltd When built 1910
Engines made at Belfast By whom made when made
Boilers made at By whom made when made
Registered Horse Power Owners *Paddy S. Cox Ltd* Port belonging to *Liverpool*

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~. Manufacturers of Steel *R. C. Bell & Sons Ltd*
(Letter for record *S.*) Total Heating Surface of Boilers *4814 sq ft* Is forced draft fitted *No* No. and Description of Boilers *2 Single End Hybrid* Working Pressure *215 lbs* Tested by hydraulic pressure to *430 lbs* Date of test *10-6-10*
No. of Certificate *434* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *71 sq ft* No. and Description of safety valves to each boiler *Two—Inverted Spring* Area of each valve *9.62 sq in* Pressure to which they are adjusted *215 lbs*
Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *Yes*
Smallest distance between boilers or uptakes and bunkers or woodwork *About 5 ft* Mean dia. of boilers *15.6 in* Length *10-9 in*
Material of shell plates *Steel* Thickness *1 3/8 in* Range of tensile strength *19-23 tons* Are the shell plates welded or flanged *No*
Descrip. of riveting: cir. seams *Lap* Long. seams *Butt* Diameter of rivet holes in long. seams *1 3/8 in* Pitch of rivets *10 in*
Lap of plates or width of butt straps *23 1/2 in* Per centages of strength of longitudinal joint rivets *96.9* Working pressure of shell by rules *249 lbs* Size of manhole in shell *16 in x 12 in* Size of compensating ring *16 in* No. and Description of Furnaces in each boiler *4—Mansard* Material *Steel* Outside diameter *45 in* Length of plain part top *5 in* Thickness of plates crown *3 3/8 in* bottom *3 3/8 in*
Description of longitudinal joint *Weld* No. of strengthening rings *1* Working pressure of furnace by the rules *236 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *5 in* Back *5 in* Top *5 in* Bottom *3 1/2 in* Pitch of stays to ditto: Sides *8 x 7 1/4 in* Back *7 1/2 x 7 1/4 in*
Top *7 x 7 1/4 in* If stays are fitted with nuts or riveted heads *Nuts in ends* Working pressure by rules *218 lbs* Material of stays *Steel* Diameter at smallest part *1 1/2 in* Area supported by *one* stay *20 3/4 sq in* Working pressure by rules *261 lbs* And plates in steam space: Material *Steel* Thickness *1 1/2 in*
Pitch of stays *14 x 14 in* How are stays secured *Nuts in heads* Working pressure by rules *217 lbs* Material of stays *Steel* Diameter at smallest part *2 1/2 in*
Area supported by *one* stay *27 5/8 sq in* Working pressure by rules *264 lbs* Material of Front plates at bottom *Steel* Thickness *4 1/2 in* Material of Lower back plate *Steel* Thickness *5 in* Greatest pitch of stays *12 1/2 in* Working pressure of plate by rules *249 lbs* Diameter of tubes *2 1/2 in*
Pitch of tubes *4 x 4 in* Material of tube plates *Steel* Thickness: Front *4 1/2 in* Back *4 1/2 in* Mean pitch of stays *8 x 8 in* Pitch across wide water spaces *14 in* Working pressures by rules *371 lbs* Material of Chamber tops: Material *Iron* Depth and thickness of girder at centre *9 in (3/4 x 2)* Length as per rule *29 in* Distance apart *8 x 7 in* Number and pitch of Stays in each *3-7 1/4 in*
Working pressure by rules *224 lbs* Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked separately
Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
for Harland & Wolff Ltd
W. C. Cummings Manufacturer.

Is the approved plan of boiler forwarded herewith *Yes*
Total No. of visits *See other sheet*

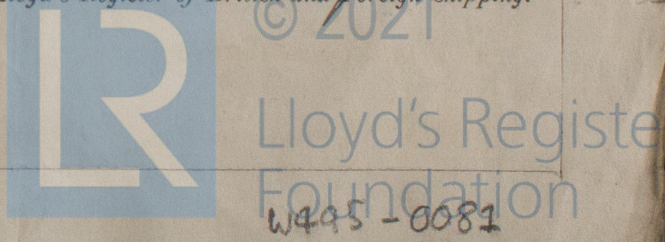
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

Survey Fee ... £ : : When applied for *See other sheet*
Travelling Expenses (if any) £ : : When received, " " " 19 " "

R. F. Bennett
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute
Assigned

TUE. 1 NOV 1910



List of Rankin Pumps

Main & Service Duplex	9' x 6' x 10'
Auxiliary Feed	8' x 6' x 12'
Ballast	9' x 10' x 12'
Laminate	6' x 4' x 4'
Main Feed	12' x 9' x 24'
Auxiliary Air	Single 12' x 4' x 8'
Fresh Water	4' x 4' x 10'

YES

These particulars

Signal Letters (if any)

Official Number

131296

No., Date, and Port of P

Whether British or Foreign Built.

British

Number of Decks

Number of Masts

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework and descr vessel ...

Number of Bulkheads

Number of water ballast and their capacity in

Total to quarter the depth from v to bottom of keel

No. of sets of Engines.

Description of Eng

Two

Inverted de

No. of Shafts.

Particulars of Bo

Two

Description of Bo

Number of Shafts

Iron or Steel

Loaded Pressure 20

GROSS

Under Tonnage Deck

Space or spaces between

Turret or Tank ...

Forecastle ...

Bridge space ...

Poop or Break ...

Side Houses ...

Deck Houses ...

Chart Houses ...

Spaces for machinery, & Section 78 (2) of the 1894. ...

Excess of Hatchways

Gross Tonnage

Deductions, as per Con

Registered To

NOTE.—The only space

Open passag

Open passag

Name of Mast

No. of Owners

Name, Residence, and

Bibby Stear

of business

Lancaster.

Manager: C

Dated 6th. C

30) (65181) Wt. 5356/65



© 2021

Lloyd's Register Foundation